

Wireless & Self-Powered IoT

The Key to Intelligent Systems and Smart Buildings

June 2019

EnOcean – Raw Data for Intelligent Systems



EnOcean enables intelligent IoT systems by providing necessary sensor data at low cost and zero maintenance







There is no intelligent system without sensors providing information.

There are no sensors providing information if they're not available at reasonable cost.

There is no information from sensors if they are not durable and zero maintenance.



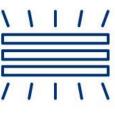
We produce and market self-powered wireless sensor solutions for IoT systems used in...



Building Automation



Smart Homes



LED Lighting



M2MTransportation
Agriculture



The Value We Create



We help to **preserve natural resources** and **improve quality of life** by creating wireless, self-powered IoT sensor systems providing..







Energy-efficiency



Time savings



Cost savings



Making Buildings Intelligent for 15 Years



Take the largest building and equip it with ...

Wireless self-powered sensors to detect...









Motion



Door/ Window Status

Wireless, self-powered sensors and actuators to control...









Light

Air Quality

Humidity Temperature





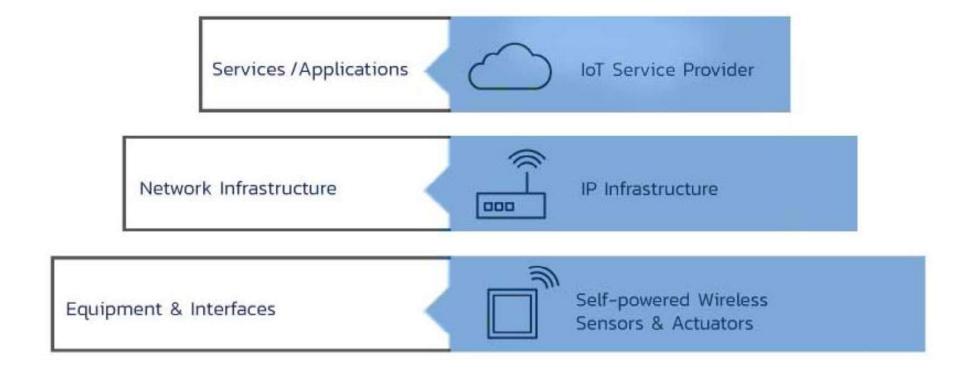
...and turn it into a self optimizing "cognitive building" with:

- Reduced energy consumption
- Increased user flexibility
- Improved work quality and convenience
- Increased safety
- Reduced system cost
- Increased RoI



The Promise to Self-Powered IoT





The Competence We Deliver



EnOcean combines core technologies into easy to use products



Energy harvesting generates power from ambient energy: kinetic, solar and thermo.



Sensor communication based on open radio standards: EnOcean, Zigbee and Bluetooth Low Energy.



Ultra low power management secures batteryless 24/7 operation.

Worldwide Wireless Standards to Connect



We connect wireless and self-powered sensors to IoT systems using open wireless standards



EnOcean Alliance – the self- powered wireless standard

- → 400 members
- \rightarrow 1,500 interoperable products





→ Standardization of Energy Harvesting

→ Support of Existing Eco Systems

The Competence to Enable



We sell EnOcean modules and Easyfit products









EnOcean's seal "Battery-free by EnOcean" for self-powered switches





Our business scales with customers, partners and suppliers delivering highly innovative products & solutions

Customers & Partners in Building Automation **Customers & Partners** in Lighting

Customers & Partners for IoT solutions

Customers & Partners for M2M









Bouygues Immobilier













































... and last but not least did you know that the EnOcean eco system...



 \rightarrow has installed products around the world in more than 500,000 buildings over the past 15 years saving approximately 50,000,000 batteries?

- → has more than 3.5 MiO "Battery-free by EnOcean" kinetic energy-harvesting products in use?
- \rightarrow has over 1,500 commercial interoperable products based on the EnOcean radio standard?
 - →will be an important driver for TrillionS of IoT sensors that will be in operation by 2025?

 Source: TSensor Summit, Oct 2013